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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/812,402	03/29/2004	Yoji Taniguchi	1324.70198	1711	
24978 GREER, BURN	7590 05/23/200 NS & CRAIN	7	EXAMINER		
300 S WACKER DR			BRIGGS, NATHANAEL R		
25TH FLOOR			ART UNIT	PAPER NUMBER	
CHICAGO, IL	CHICAGO, IL 60606		2871		
			MAIL DATE	DELIVERY MODE	
			05/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/812,402	TANIGUCHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Nathanael R. Briggs	2871				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
 1) ⊠ Responsive to communication(s) filed on 14 March 2007. 2a) ☐ This action is FINAL. 2b) ⊠ This action is non-final. 						
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-5,10 and 11 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 and 10-11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine 11).	epted or b) objected to by the drawing(s) be held in abeyance. Serion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

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DETAILED ACTION

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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 15 February 2007 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-5 and 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kishida et al. (US 2003/0156247) in view of Chen et al. (US 2002/0047983).
- 4. Regarding claim 1, Kishida discloses (more specifically in abstract; paragraphs [0071], [0077], [0220], [0252], [0291]-[0298], and Figs. 1-6, for example), a method for producing a liquid crystal display device comprising steps of: sealing a liquid crystal containing a polymerizable component capable of being polymerized with heat or light between a pair of substrates having been disposed as being opposed to each other ([0220], [0295]); polymerizing the polymerizable component by irradiating the liquid

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crystal with light of a luminance of 50mW/cm2 or more at a room temperature for an irradiating time of 100 seconds under application of a voltage of 5V so as to control a pretilt angle and a tilt direction of liquid crystal molecules ([0071]); and wherein the voltage or the temperature or the luminance or the irradiation time is controlled as a parameter to obtain prescribed optical characteristics; the parameter that is controlled under feedback of a thickness of a cell or of a height of a pillar spacer formed on one of the pair of substrates before and after injecting the liquid crystal ([0077]). However, Kishida does not expressly disclose wherein the method includes measuring a thickness of a cell of a height of a pillar spacer on one of the pair of substrates before and/or after injecting the liquid crystal, or wherein the parameter is controlled under

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5. Regarding claim 1, Chen discloses a method for producing a liquid crystal display (see figures 3-4, for instance), wherein the method includes measuring a thickness of a cell of a height of a pillar spacer ([0014]) on one of a pair of substrates (40, 42) after injecting the liquid crystal, or wherein the parameter (temperature, luminance, and irradiation time; [0029]) is controlled under feedback of a measured thickness of the cell or a measured height of the pillar spacer ([0028]-[0029]).

feedback of a *measured thickness* of the cell or a *measured height* of the pillar spacer.

6. It would have been obvious to one of ordinary skill in the art at the time the invention was made to add the step of measuring a cell gap like Chen in the method fo Kishida. The motivation for doing so would have been to produce a display with uniform, controlled cell gap, thereby yielding a uniform display, maintaining a repeatable

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process, and saving cost of production, as taught by Chen ([0029]-[0033]). Claim 1 is therefore unpatentable.

- 7. Regarding claim 2, Kishida in view of Chen discloses the method of claim 1 (see figures 1-6, for instance), and Kishida further discloses wherein the voltage is controlled within a range of 0.1 to 100V ([0071]). Claim 2 is therefore unpatentable.
- 8. Regarding claim 3, Kishida discloses the method of claim 1 (see figures 1-6, for instance), and Kishida further discloses wherein the temperature is controlled within a range of –30°C to 250°C ([0071]). Claim 3 is therefore unpatentable.
- 9. Regarding claim 4, Kishida discloses the method of claim 1 (see figures 1-6, for instance), and Kishida further discloses wherein the luminance is controlled within a range of 1 mW/cm2 to 10,000 mW/cm2 ([0071]). Claim 4 is therefore unpatentable.
- 10. Regarding claim 5, Kishida discloses the method of claim 1 (see figures 1-6, for instance), and Kishida further discloses wherein the radiation time is controlled between 1 second and 24 hours ([0071]). Claim 5 is therefore unpatentable.
- 11. Regarding claim 10, Kishida discloses the method of claim 1 (see figures 1-6, for instance), and Kishida further discloses wherein the parameter is controlled to compensate for a luminance distribution within the panel ([0077]). Claim 10 is therefore unpatentable.
- 12. Regarding claim 11, Kishida discloses the method of claim 1 (see figures 1-6, for instance), and Kishida further discloses wherein the optical characteristics include gamma characteristic and transmittance upon displaying black ([0293]). Claim 11 is therefore unpatentable.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathanael R. Briggs whose telephone number is (571) 272-8992. The examiner can normally be reached on 9 AM - 5:30 PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nathanael Briggs 5/18/2007

ANDREW SCHECHTER PRIMARY EXAMINER

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